

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-198870

(43)Date of publication of application : 24.07.2001

(51)Int.Cl.

B25J 13/08
G05B 19/18

(21)Application number : 2000-013108

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(22)Date of filing : 21.01.2000

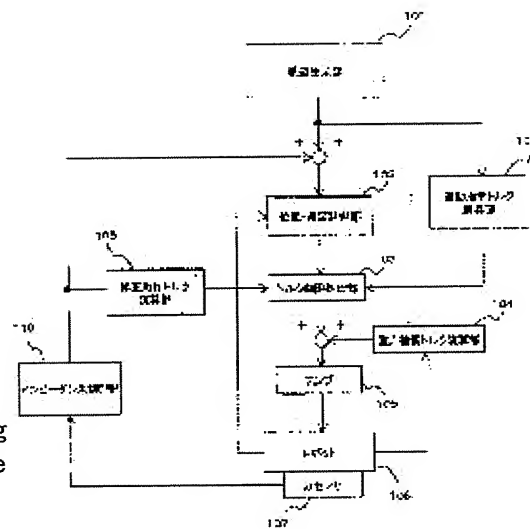
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(54) CONTROLLER FOR ROBOT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a controller stably realizing highly accurate force control even to a hard object and at the same time realizing having a flexible characteristic when contacted in any portion of an arm.

SOLUTION: This controller for a robot applies state feedback of position and speed of the robot, and it is provided with a control circuit for a motor driving revolute joints and a force control circuit based upon feedback from a force sensor. It is provided with means 101 and 102 calculating accelerating torque and torque for maintaining speed of the motor from an operation command and/or feedback of the motor, a means 108 adding the accelerating torque and the speed maintaining torque for calculating torque necessary for motion of the motor, a means 109 calculating torque necessary for a correcting operation from a correcting operation command outputted from a force control part 110, and a means 103 limiting generating torque of the robot from the torque necessary for the motion of the motor and the torque necessary for the correcting operation.



LEGAL STATUS

[Date of request for examination]

07.12.2006

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]